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Resources, Tools and Basic Information for Engineering and Design of Technical Applications!

The Engineering ToolBox > Combustion

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Combustion - Boiler house topics, fuels, chimneys, safety valves, tanks ..

Wobbe Index and Fuel Gases

The Wobbe index for some common fuel gases as propane, butane, methane and more

The Wobbe Index is a number indicating the interchange ability of fuel gases. It is the best indicator of the similarity between a specific natural gas and propane-air mixture.

Fuel Gas	Upper Wobbe Index (kcal/Nm ³)	Lower Wobbe Index (kcal/Nm ³)
Hydrogen	11,528	9,714
Methane	12,735	11,452
Ethane	16,298	14,931
Ethylene	15,253	14,344
Natural Gas	12,837	11,597
Propane	19,376	17,814
Propylene	18,413	17,180
n-Butane	22,066	20,336
Iso-Butane	21,980	20,247
Butylene-1	21,142	19,728
LPG	20,755	19,106
Acetylene	14,655	14,141
Carbon Monoxide	3,060	3,060

The Wobbe Index relates fuel gas heating characteristics in a manner that is useful for blending fuel gases, or to obtain a constant heat flow from a gas of varying composition.

Note! The Wobbe Index does not relate flame temperature, heat transfer coefficients or temperature gradients.

[Link to this page](#) - copy the link : Wobbe Index and Fuel Gases - The Wobbe index for some common fuel gases as propane, butane, methane and more

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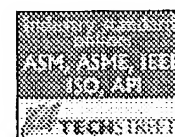
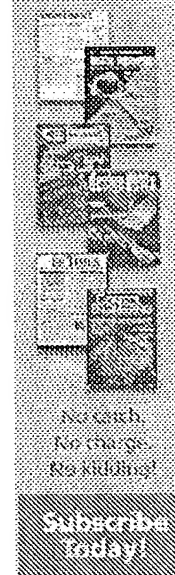
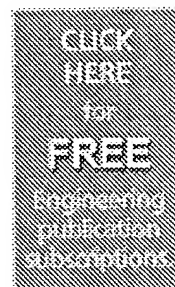
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